

Section 1. Registration Information

Source Identification

Facility Name:	Shell - Sewaren Terminal
Parent Company #1 Name:	Shell Oil Company
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	Revised PHA / Hazard Review due to process change (40 CFR 68.190(b)(5))
Description:	
Receipt Date:	11-Oct-2018
Postmark Date:	11-Oct-2018
Next Due Date:	11-Oct-2023
Completeness Check Date:	09-Dec-2020
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0005 5325
Other EPA Systems Facility ID:	NJD002195220
Facility Registry System ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	
Parent Company #1 DUNS:	4294737
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	111 State Street
Street 2:	
City:	Sewaren
State:	NEW JERSEY
ZIP:	07077
ZIP4:	
County:	MIDDLESEX

Facility Latitude and Longitude

Latitude (decimal):	40.542148
Longitude (decimal):	-074.258467
Lat/Long Method:	Interpolation - Other
Lat/Long Description:	Administrative Building
Horizontal Accuracy Measure:	3
Horizontal Reference Datum Name:	World Geodetic System of 1984

Source Map Scale Number:

Owner or Operator

Operator Name:	Equilon Enterprises LLC
Operator Phone:	(713) 767-5300

Mailing Address

Operator Street 1:	150 N. Dairy Ashford
Operator Street 2:	
Operator City:	Houston
Operator State:	TEXAS
Operator ZIP:	77079
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Mario Berrios
RMP Title of Person or Position:	Facilities Manager - New Jersey
RMP E-mail Address:	Mario-Berrios@shell.com

Emergency Contact

Emergency Contact Name:	Mario Berrios
Emergency Contact Title:	Facilities Manager - New Jersey
Emergency Contact Phone:	(281) 435-8068
Emergency Contact 24-Hour Phone:	(281) 435-8068
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	Mario-Berrios@shell.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	www.shell.com

Local Emergency Planning Committee

LEPC:	Middlesex County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	65
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes

CAA Title V:

Yes

Air Operating Permit ID:

BOP 080002

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency)
Date:

27-Jul-2018

Last Safety Inspection Performed By an External
Agency:

NJ Department of Community Affairs

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:

Cocciardi and Associates, Inc.

Preparer Phone:

(717) 766-4500

Preparer Street 1:

4 Kacey Court

Preparer Street 2:

Preparer City:

Mechanicsburg

Preparer State:

PENNSYLVANIA

Preparer ZIP:

17055

Preparer ZIP4:

Preparer Foreign State:

Preparer Foreign Country:

Preparer Foreign ZIP:

Confidential Business Information (CBI)

CBI Claimed:

Substantiation Provided:

Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:

See Section 6. Accident History below to determine
if there were any accidents reported for this RMP.

Process Chemicals

Process ID:

1000091537

Description:

Butane Blending

Process Chemical ID:

1000114394

Program Level:

Program Level 3 process

Chemical Name:

Butane

CAS Number:

106-97-8

Quantity (lbs):

1400000

CBI Claimed:

Flammable/Toxic:

Flammable

Process NAICS

Process ID:	1000091537
Process NAICS ID:	1000092765
Program Level:	Program Level 3 process
NAICS Code:	42471
NAICS Description:	Petroleum Bulk Stations and Terminals

Section 2. Toxics: Worst Case

No records found.

Section 3. Toxics: Alternative Release

No records found.

Section 4. Flammables: Worst Case

Flammable Worst ID: 1000054701

Model Used:

EPA's RMP*Comp(TM)

Endpoint used:

1 PSI

Passive Mitigation Considered

Blast Walls:

Other Type:

Section 5. Flammables: Alternative Release

Flammable Alter ID: 1000051656

Model Used:

EPA's RMP*Comp(TM)

Passive Mitigation Considered

- Dikes:
- Fire Walls:
- Blast Walls:
- Enclosures:
- Other Type:

Active Mitigation Considered

- Sprinkler System:
- Deluge System:
- Water Curtain:
- Excess Flow Valve:
- Other Type:

Pneumatic actuated flow valves fail closed with loss of feed line (low melting point) air pressure resulting from fire or line separation/impact. Fire water monitors.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

The Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System provides the capability to blend butane directly into gasoline storage tanks as well as the ability to offload butane from railcar to tanker truck for distribution. The design includes one (1) truck loading/offloading rack with three (3) bays (2 bays are capable of both loading and offloading), two (2) rail offloading spots, one (1) air eliminator, two (2) liquid butane pumps, one (1) vapor displacement pump, and associated piping and appurtenances. The system design meets or exceeds API 2510 (Design and Construction of LPG Installations).

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000096652
Chemical Name:	Butane
Flammable/Toxic:	Flammable
CAS Number:	106-97-8
Process ID:	1000091537
Description:	Butane Blending
Prevention Program Level 3 ID:	1000077833
NAICS Code:	42471

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	19-Sep-2018
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	19-Apr-2018
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	31-Dec-2018

Major Hazards Identified

Toxic Release:	
Fire:	Yes
Explosion:	Yes
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes

Corrosion:	Yes
Overfilling:	Yes
Contamination:	Yes
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	Yes
Earthquake:	
Floods (Flood Plain):	Yes
Tornado:	
Hurricanes:	Yes
Other Major Hazard Identified:	

Process Controls in Use

Vents:	
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	
Flares:	
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	
Grounding Equipment:	Yes
Inhibitor Addition:	
Rupture Disks:	
Excess Flow Device:	Yes
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	
Dikes:	
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	
Neutralization:	
None:	
Other Mitigation System in Use:	Fire water monitors

Monitoring/Detection Systems in Use

Process Area Detectors:	Yes
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	Hydrocarbon detectors (truck and rail area), flow monitoring along with temperature and pressure indicators

Changes Since Last PHA Update

Reduction in Chemical Inventory:

Increase in Chemical Inventory:

Change Process Parameters:

Installation of Process Controls:

Installation of Process Detection Systems:

Installation of Perimeter Monitoring Systems:

Installation of Mitigation Systems:

None Recommended:

None:

Yes

Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 21-Sep-2018

Training

Training Revision Date (The date of the most recent review or revision of training programs): 19-Sep-2018

The Type of Training Provided

Classroom: Yes

On the Job: Yes

Other Training:

The Type of Competency Testing Used

Written Tests: Yes

Oral Tests:

Demonstration: Yes

Observation: Yes

Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 20-Sep-2018

Equipment Inspection Date (The date of the most recent equipment inspection or test): 05-Oct-2018

Equipment Tested (Equipment most recently inspected or tested): Vapor return pump

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 20-Jul-2018

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 20-Sep-2018

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 18-Aug-2016

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 19-Sep-2018

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 15-Oct-2018

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 20-Sep-2018

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 27-Sep-2018

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 19-Sep-2018

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 31-Aug-2018

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

No records found.

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 20-Sep-2018

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 22-Aug-2018

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Middlesex Co. Office of Emerg. Mgt.

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (732) 727-8993

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120: Yes

Clean Water Regulations at 40 CFR 112: Yes

RCRA Regulations at CFR 264, 265, and 279.52: Yes

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254: Yes

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

The Shell - Sewaren Terminal is an existing, onshore bulk storage fuel terminal located at 111 State Street, Sewaren, New Jersey 07077. The Terminal straddles State Street with most of its processing equipment and storage falling on the east side. The butane system is located on the west side. The Terminal is bounded on the east by the Arthur Kill Tidal Strait. The Terminal handles and stores various grades of unleaded gasoline, diesel, butane, ethanol, and petroleum additives for distribution to retail and commercial end-users in the vicinity of Sewaren, NJ.

Shell - Sewaren Terminal in Sewaren, NJ is committed to operating and maintaining processes in a safe, reliable and environmentally sound manner. Shell believes that excellent performance in health, safety, and the environment go hand in hand with operating reliably, and that outstanding HSE performance is of paramount importance.

The Sewaren Terminal is designed, operated and maintained in a manner that protects the environment, as well as the health and safety of its employees, contractors and the community. Shell promotes health, safety, and the environment through programs of awareness, compliance, prevention and protection. These programs include a combination of accidental release prevention and emergency response planning. This document provides a brief overview of the comprehensive risk management activities that Shell has designed and implemented, including:

- A. A description of the facility and the use of regulated substances
- B. An overview of the accidental release prevention programs
- C. A five-year accident history for accidental releases of regulated chemicals
- D. An overview of the emergency response program
- E. An overview of planned changes to improve safety

A. STATIONARY SOURCE AND REGULATED SUBSTANCES

The primary function of the Sewaren Terminal, located in Sewaren, New Jersey is to act as a bulk storage fuel terminal. The Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System has been classified as Program level 3. No Program 1 or 2 processes containing regulated substances were identified. By virtue of the flammable effects associated with butane, it is necessary to observe certain safety precautions in handling butane to prevent unnecessary human exposure, to reduce the threat to employee health, and to minimize the threat and impact to nearby members of the community. Shell - Sewaren Terminal is strongly committed to employee, public, and environmental safety and health. Safety at the Facility depends upon the manner in which butane is handled as well as the various safety devices incorporated into the design of the process. Furthermore, comprehensive training is provided to employees, which reinforces the safety policies and procedures of the Sewaren Terminal.

The Sewaren Terminal has variable inventories of butane. The Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System provides the Sewaren Terminal the capability to offload butane from railcars and trucks and blend the butane into gasoline tanks. In addition, it also allows for the direct transfer of butane from railcars to tanker trucks. The system consists of one (1) truck loading/offloading rack with three (3) bays, one (1) rail spur holding up to nine (9) butane railcars with two (2) rail offloading locations, one (1) air-eliminator, one (1) vapor return pump, two (2) liquid butane pumps, and associated piping and appurtenances. Butane can be offloaded from either tanker trucks at the three (3) loading rack bays or from railcars at the two (2) railcar offloading locations. The butane is then transferred to one of twelve above-ground, floating roof storage tanks for blending with gasoline. The System also provides the Sewaren Terminal the capability to transfer butane from railcars directly into tanker trucks. Truck loading can occur at Loading Rack Bays 2 and 3. Process safety controls include: "Smart Hose" (or equivalent) breakaway hoses at the truck offloading/loading stations, railcar excess flow valves, Snappy Joe Emergency Shutoff Valves, thermal/hydrostatic relief around all isolatable sections of piping, a pressure relief valve on the air eliminator, truck and railcar grounding devices at the offload stations, check valves, and pneumatic valves which fail closed. The supply lines to the pneumatic valves also incorporate low-melting point (<250°F) tubing for fire protection. Access to the Sewaren Terminal is restricted to authorized employees, management personnel and authorized contractors/visitors.

B. GENERAL ACCIDENTAL RELEASE PREVENTION PROGRAM AND CHEMICAL-SPECIFIC PREVENTION MEASURES

The accidental release prevention programs and emergency planning and response programs help to effectively manage the hazards posed by the regulated substances to employees, the public, and the environment. The covered process is regulated by the EPA RMP regulation 40 CFR Part 68 and NJDEP TCPA Title 7, Chapter 31, as well as the OSHA Process Safety Management

standard 29 CFR 1910.119. The following accident prevention program elements are in place at the Sewaren Terminal:

- 1) Employee Participation
- 2) Process Safety Information
- 3) Process Hazard Analysis (PHA) with Risk Assessments
- 4) Standard Operating Procedures
- 5) EHS Operator Training
- 6) Contractors
- 7) Pre-startup Safety Review
- 8) Mechanical Integrity with Preventive Maintenance
- 9) Work Permits
- 10) Management of Change
- 11) EHS Accident or Potential Catastrophic Event Investigation
- 12) Emergency Response
- 13) Compliance Audits
- 14) Trade Secrets

These fourteen (14) individual elements of the prevention program work together to prevent accidental chemical releases. The company and its employees are committed to the standards required by these management programs. In addition to the above elements, Sewaren Terminal also has specific prevention measures that are employed as part of the operating procedures and engineering and administrative controls to help contain/control a release, quickly detect a release, and reduce the consequences of a release. These are briefly summarized as follows:

General Risk Reduction and Safety Measures

- Engineering and construction in accordance with recognized industry and company standards
- Equipment properly designed with protection from overpressure (pressure safety relief valves, etc.)
- Updated technical drawings, Piping & Instrument Diagrams and Process Flow Diagrams
- Operating systems monitored and controlled by trained Operators
- Computerized monitoring and control of process operation
- Redundant control systems
- Automatic and manual shutdown devices for critical systems
- Scheduled inspection and testing of instruments, analyzers, and safety devices
- Limited facility access
- Regular safety meetings and safety awareness programs
- Routinely scheduled safety inspections and audits
- Frequent unit surveillance by operators

General Release Mitigation

- Automatic and remotely operated shut-offs to limit release quantity
- Strategically located valves to isolate leaks
- Hydrocarbon detectors at key areas to warn of a chemical release

General Emergency Response

- Emergency alert system
- Periodic emergency training for employees
- Communication systems with local emergency responders and regulatory agencies
- Emergency drills with plant personnel, regulatory agencies, and community emergency responders to enhance response skills and coordination among agencies
- Participation with the Local Emergency Planning Committee (LEPC)

Further, the Sewaren Terminal complies with the American Petroleum Institute's Standard 2510 - Design and Construction of LPG

Installations (API 2510-2001) requirements for LP Gas systems. In addition to the presence of appropriate controls to prevent possible releases of butane, if a release does occur, a Facility Response Plan (FRP) is in place for the Facility and response activities are coordinated with the Woodbridge Township Fire Department and Middlesex County Office of Emergency Management.

C. FIVE YEAR ACCIDENT HISTORY

The Sewaren Terminal has an excellent record of accident prevention. The terminal keeps records for all significant accidental chemical releases that occur at our facility. This is a "new" Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System process; consequently, there have been no accidents within the past five (5) years resulting from the chemical release of materials covered under the EPA RMP regulation.

D. EMERGENCY RESPONSE PROGRAM

Response actions are coordinated with the Woodbridge Township Fire Department. A Facility Response Plan (FRP) is in place to inform employees what to do in case of a release, fire, and to notify emergency responders when there is a need for a response.

Shell - Sewaren Terminal complies with the U.S. Environmental Protection Agency's (EPA) Accident Prevention Rules (40 CFR Part 68 Subpart D) NJDEP TCPA Title 7, Chapter 31, the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) standard and associated 14 elements (29 CFR Part 1910.119), and all applicable state and local laws and regulations. The Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System is designed, constructed, and maintained in accordance with API 2510.

In the event of an emergency involving the Sewaren Terminal Butane Railcar Offloading, Tank Blending, and Truck Loading/Unloading System, it is the policy of the Facility to initially contact the Woodbridge Township Fire Department and request their assistance. The Facility maintains a trained (annually) incipient fire capability. The Facility's emergency response plans are coordinated with the Woodbridge Township Fire Department and Middlesex County Office of Emergency Management. The Woodbridge Township Fire Department will participate in the initial PSM/RMP training session for this system.

Shell - Sewaren Terminal should also maintain a relationship with the Woodbridge Township Fire Department. Tours and drills with members of local emergency response organizations are held routinely. These tours and drills enable the public emergency responders to become familiar with the hazards, equipment, resources and personnel in the terminal.

E. PLANNED CHANGES TO IMPROVE SAFETY

Shell is continually striving to make the Shell - Sewaren Terminal the safest and most reliable workplace possible for our employees, our neighbors and our community.

In an effort to improve and promote system safety, Shell looks for, and seeks employee input, on process safety improvements. The Woodbridge Township Fire Department is contacted regarding participation in site emergency response drills. Additionally, Shell will work cooperatively with the community to address any concerns.